# The Alberta Heritage Savings Trust Fund Capital Projects Division

## 1985-86 Estimates of Proposed Investments

## Votes By Project

Alberta

## INTRODUCTION

This booklet presents, by project, the 1985-86 Estimates of Proposed Investments. For the information of the Legislature, projects have been reported at a sub-project level, where applicable, and by object of expenditure with comparable figures from 1984-85. Where a sub-project breakdown exists, expenditure control exists at the sub-project level insofar as transfers of funds between sub-projects within the same project require Treasury Board approval.

## AGRICULTURE

### 1. Farming For The Future

**AMOUNT TO BE VOTED:** $5,000,000

**Objective:** To provide funding for agricultural research with the aim of assuring the long term viability of agriculture and the improvement of net farm incomes in the province.

**Implementation:** The Agricultural Research Council of Alberta administers the programme. It reviews research proposals and approves projects for funding. Research projects can be in any of the following categories: apiculture and entomology; beef and dairy cattle; cereals and oil seeds; forage crops; land use and soils; transportation, processing and marketing; poultry, sheep and swine; and special crops. Approved projects are either funded by a research grant from Agriculture or may be implemented directly by the Department.

| | 1985-86 Estimates $ | Comparable 1984-85 Estimates $ |
|---|---|---|
| **Sub-Projects:** | | |
| No sub-project breakdown | | |
| Total Project | 5,000,000 | 5,000,000 |
| **Summary By Object of Expenditure:** | | |
| Manpower | 159,000 | 50,000 |
| Supplies and Services | 216,000 | 450,000 |
| Grants | 4,625,000 | 4,500,000 |
| Purchase of Fixed Assets | — | — |
| Total Project | 5,000,000 | 5,000,000 |

**Total Actual Expenditure to 31-Mar-84:** $24,904,000

## AGRICULTURE

**2. Food Processing Development Centre**

**AMOUNT TO BE VOTED:** $1,365,000

**Objective:** Funds will be used to equip the Centre near Leduc. When completed, the Centre will provide the food industry with an Alberta facility which can be used in the creation and testing of new products and processes and in the preparation of small lots for test marketing.

**Implementation:** The project is administered by Agriculture. Public Works, Supply and Services is supervising the design and development.

| | 1985-86 Estimates $ | Comparable 1984-85 Estimates $ |
|---|---|---|
| **Sub-Projects:** | | |
| No sub-project breakdown | | |
| Total Project | 1,365,000 | 2,071,000 |
| **Summary By Object of Expenditure:** | | |
| Manpower | — | — |
| Supplies and Services | — | 111,000 |
| Grants | — | — |
| Purchase of Fixed Assets | 1,365,000 | 1,960,000 |
| Total Project | 1,365,000 | 2,071,000 |

**Total Actual Expenditure to 31-Mar-84:** $5,945,000

## AGRICULTURE

### 3. Irrigation Rehabilitation and Expansion

**AMOUNT TO BE VOTED:** $30,000,000

**Objective:** To assist irrigation districts in rehabilitating irrigation systems which will ensure efficient distribution of water to Alberta's irrigation farmers.

**Implementation:** Agriculture administers the programme and provides grants to 13 irrigation districts for two categories of projects: major works — the rehabilitation of larger canals and the rehabilitation and construction of reservoirs; irrigation capital works — the rehabilitation of smaller canals and seepage control and drainage projects. Funds are administered under agreements executed annually with the districts. Districts contribute 14% of costs. Under the Support Services area of this project aerial photography and research activities occur.

| | 1985-86 Estimates $ | Comparable 1984-85 Estimates $ |
|---|---|---|
| **Sub-Projects:** | | |
| 1. Support Services | 200,000 | 200,000 |
| 2. Assistance to Irrigation Districts | 29,800,000 | 24,800,000 |
| Total Project | 30,000,000 | 25,000,000 |
| **Summary By Object of Expenditure:** | | |
| Manpower | — | — |
| Supplies and Services | 200,000 | 200,000 |
| Grants | 29,800,000 | 24,800,000 |
| Purchase of Fixed Assets | — | — |
| Total Project | 30,000,000 | 25,000,000 |

**Total Actual Expenditure to 31-Mar-84:** $127,326,000

## ENERGY AND NATURAL RESOURCES

### 1. Alberta Oil Sands Technology and Research Authority

**AMOUNT TO BE VOTED:** $50,000,000

**Objective:** To promote and assist pure and applied research into economic and environmentally acceptable methods for the recovery and processing of petroleum from oil sands deposits and heavy crude oil reserves, and for enhancing the volumes of oil that can be produced from conventional oil reserves.

**Implementation:** In the area of oil sands and heavy crude oil research, the Alberta Oil Sands Technology and Research Authority (AOSTRA) supports field work by petroleum companies to test in-situ recovery processes. Financial assistance is also provided to Canadian universities for research conducted by students and staff, and to the Alberta Research Council for a number of oil sands programmes. A programme for assisting individual inventors was introduced by AOSTRA in 1983.

For conventional oil enhanced recovery research, AOSTRA also provides financial assistance in support of field work by petroleum companies and laboratory work to test recovery processes.

The rights to the technology arising from these activities are earned by AOSTRA and made available to interested parties for commercial use at fair market value.

| | 1985-86 Estimates $ | Comparable 1984-85 Estimates $ |
|---|---|---|
| **Sub-Projects:** | | |
| 1. Oil Sands Technology and Research | 40,000,000 | 35,000,000 |
| 2. Conventional Oil Enhanced Recovery | 10,000,000 | 15,000,000 |
| Total Project | 50,000,000 | 50,000,000 |
| **Summary by Object of Expenditure:** | | |
| Manpower | — | — |
| Supplies and Services | — | — |
| Grants | 50,000,000 | 50,000,000 |
| Purchase of Fixed Assets | — | — |
| Total Project | 50,000,000 | 50,000,000 |

**Total Actual Expenditure to 31-Mar-84:** $251,449,000*

* Includes expenditures of the Conventional Oil Enhanced Recovery Programme.

## ENERGY AND NATURAL RESOURCES

### 2. Grazing Reserves Development

**AMOUNT TO BE VOTED:** $3,685,000

**Objective:** To diversify and stabilize small scale farming, particularly in the grey wooded areas of northern Alberta, by providing additional improved pasturelands.

**Implementation:** The development of each reserve is based on a land-use plan produced by an interdepartmental team. The land-use plans and development may include provisions for recreational use of grazing reserves. Energy and Natural Resources, Public Lands Division administers the project which may involve land purchases, improvements, and facility construction.

| | 1985-86 Estimates $ | Comparable 1984-85 Estimates $ |
|---|---|---|
| **Sub-Projects:** | | |
| 1. Programme Support<br>Provides for the gathering of field data to develop new grazing reserves proposals and for the supervising of contracts for the development of reserves. | 273,105 | 335,221 |
| 2. Provincial Grazing Reserves<br>Provides for land development and construction of facilities. | 3,283,822 | 6,134,566 |
| 3. Special Projects<br>Allows other government departments and agencies to have input into the development plans for new reserves. | 128,073 | 138,213 |
| Total Project | 3,685,000 | 6,608,000 |
| **Summary By Object of Expenditure:** | | |
| Manpower | 332,947 | 368,000 |
| Supplies and Services | 3,327,053 | 6,120,000 |
| Grants | — | — |
| Purchase of Fixed Assets | 25,000 | 120,000 |
| Total Project | 3,685,000 | 6,608,000 |

**Total Actual Expenditure to 31-Mar-84:** $24,168,000

## ENERGY AND NATURAL RESOURCES

### 3. Maintaining Our Forests

**AMOUNT TO BE VOTED:** $4,214,100

**Objective:** To re-establish and improve the productivity of coniferous forests which have been damaged by forest fires and industrial clearings. To develop technology for future improvements in forest productivity. This programme maintains the productivity of Alberta's forests by compensating for the loss of forest lands to other land uses.

**Implementation:** The project is administered by the Alberta Forest Service, Energy and Natural Resources.

| | 1985-86 Estimates $ | Comparable 1984-85 Estimates $ |
|---|---|---|
| **Sub-Projects:** | | |
| 1. Reforestation<br>Provides for clearing, scarification, seeding, planting and regeneration surveys on potentially productive lands. These are lands which have been previously burned-out or cleared and which have not adequately regenerated to productive forest. | 3,831,200 | 3,579,900 |
| 2. Tree Improvement<br>Provides for studies aimed at improving growth, yield, and wood quality, primarily for lodgepole pine and white spruce, through genetic improvement of the growing stock. | 282,900 | 250,100 |
| 3. Wetland Improvement Trials<br>Provides for studies which examine making non-productive lands, such as muskeg, productive in timber through drainage of the land. | — | — |
| 4. Stand Improvement<br>Provides for studies of the economics of increasing the recoverable timber volume from dense stands through thinning. | 100,000 | 350,000 |
| Total Project | 4,214,100 | 4,180,000 |
| **Summary By Object of Expenditure:** | | |
| Manpower | 638,900 | 659,100 |
| Supplies and Services | 3,555,700 | 3,497,800 |
| Grants | — | — |
| Purchase of Fixed Assets | 19,500 | 23,100 |
| Total Project | 4,214,100 | 4,180,000 |

**Total Actual Expenditure to 31-Mar-84:** $16,606,000

## ENVIRONMENT

### 1. Irrigation Headworks and Main Irrigation Systems Improvement

**AMOUNT TO BE VOTED:** $60,000,000

**Objective:** To rehabilitate, upgrade or replace existing works on irrigation headworks systems and irrigation district main canals, and to construct additional water storage facilities and new water delivery systems, thus assuring the water supply for irrigation and other multi-purpose uses in southern Alberta.

**Implementation:** Environment administers the programme. Construction is done mainly by private firms bidding on publicly tendered contracts.

| | 1985-86 Estimates $ | Comparable 1984-85 Estimates $ |
|---|---|---|
| **Sub-Projects:** | | |
| 1. Programme Support | 2,633,000 | 2,845,000 |
| 2. Irrigation Headworks Rehabilitation | 27,516,000 | 23,800,000 |
| 3. Water Management Planning<br>To conduct water management planning studies to determine the long range use of the Oldman and South Saskatchewan River Basins. | 450,000 | 475,000 |
| 4. Water Resource Development Projects<br>To construct additional water storage facilities and new water delivery systems within and outside irrigation districts. | 27,385,000 | 30,780,000 |
| 5. Improved Operational Capabilities<br>To upgrade existing structures within irrigation systems. | 2,016,000 | 2,100,000 |
| Total Project | 60,000,000 | 60,000,000 |
| **Summary By Object of Expenditure:** | | |
| Manpower | 1,884,000 | 2,126,000 |
| Supplies and Services | 32,133,000 | 35,929,000 |
| Grants | 21,350,000 | 21,350,000 |
| Purchase of Fixed Assets | 4,633,000 | 595,000 |
| Total Project | 60,000,000 | 60,000,000 |

**Total Actual Expenditure to 31-Mar-84:** $156,904,000

## ENVIRONMENT

### 2. Land Reclamation

**AMCUNT TO BE VOTED:** $3,000,000

**Objective:** To reclaim land throughout Alberta which has been disturbed and to make it as productive as it was prior to disturbance. The programme also involves research to improve methods of reclaiming disturbed lands and to minimize the adverse effects of land disturbance.

**Implementation:** Environment coordinates the programme. Proposals for research and reclamation projects are solicited from a variety of sources. Research projects may be undertaken by departments, industry and the Alberta Research Council. Reclamation projects are managed by the Department and may be undertaken by tendering contracts or by entering into agreements with municipalities or industry.

| | 1985-86 Estimates $ | Comparable 1984-85 Estimates $ |
|---|---|---|
| **Sub-Projects:** | | |
| 1. Land Reclamation | 1,814,000 | 1,811,000 |
| 2. Reclamation Research | 1,186,000 | 1,189,000 |
| Total Project | 3,000,000 | 3,000,000 |
| **Summary By Object of Expenditure:** | | |
| Manpower | 160,000 | 190,000 |
| Supplies and Services | 2,840,000 | 2,810,000 |
| Grants | — | — |
| Purchase of Fixed Assets | — | — |
| Total Project | 3,000,000 | 3,000,000 |

**Total Actual Expenditure to 31-Mar-84:** $20,781,000

## ENVIRONMENT

### 3. Paddle River Basin Development

**AMOUNT TO BE VOTED:** $960,000

**Objective:** To control flooding of the Paddle River and minimize damage to roads, homes and productive agricultural land; to provide an assured water supply for rural communities; and to provide for future development of recreational facilities in the area.

**Implementation:** Environment is responsible for the construction of a dam, dykes, channel improvements and flood-free crossings downstream from the dam, as well as the purchase of related land and equipment. Construction is done mainly by private firms bidding on publicly tendered contracts.

| | 1985-86 Estimates $ | Comparable 1984-85 Estimates $ |
|---|---|---|
| **Sub-Projects:** | | |
| 1. Design and Construction | 960,000 | 3,371,000 |
| 2. Planning | — | — |
| 3. Land Assembly | — | 200,000 |
| Total Project | 960,000 | 3,571,000 |
| **Summary By Object of Expenditure:** | | |
| Manpower | 90,000 | 125,000 |
| Supplies and Services | 870,000 | 3,246,000 |
| Grants | — | — |
| Purchase of Fixed Assets | — | 200,000 |
| Total Project | 960,000 | 3,571,000 |

**Total Actual Expenditure to 31-Mar-84:** $36,251,000

## EXECUTIVE COUNCIL
### WORKERS' HEALTH, SAFETY AND COMPENSATION

**1. Occupational Health and Safety Research and Education**

**AMOUNT TO BE VOTED:** $1,000,000

**Objective:** To provide funds for research, training and education with the objective of preventing accidents and illness resulting from employment and promoting the health and well-being of Albertan workers through improved working conditions.

**Implementation:** Workers' Health, Safety and Compensation is responsible for administering the project. The majority of 1985-86 funds will be in the form of grants for research, education and training in the area of occupational health and safety.

| | 1985-86 Estimates $ | Comparable 1984-85 Estimates $ |
|---|---|---|
| **Sub-Projects:** | | |
| No sub-project breakdown | | |
| Total Project | 1,000,000 | 1,000,000 |
| **Summary By Object of Expenditure:** | | |
| Manpower | 103,703 | 102,450 |
| Supplies and Services | 44,300 | 43,500 |
| Grants | 850,297 | 853,550 |
| Purchase of Fixed Assets | 1,700 | 500 |
| Total Project | 1,000,000 | 1,000,000 |

**Total Actual Expenditure to 31-Mar-84:** $2,396,000

## EXECUTIVE COUNCIL
### ALBERTA RESEARCH COUNCIL

**1. Electronic Products Test Centre**

**AMOUNT TO BE VOTED:** $1,385,000

**Objective:** To provide funding for planning and capital and equipment costs associated with an electronic products test centre to be located at the Alberta Research Council's facility in Edmonton. The centre will provide industry with an Alberta facility for the testing, design, certification, and research and development of electronic products.

**Implementation:** The Alberta Research Council will administer the project and operate the centre.

| | 1985-86 Estimates $ | Comparable 1984-85 Estimates $ |
|---|---|---|
| **Sub-Projects:** | | |
| No sub-project breakdown | | |
| Total Project | 1,385,000 | 4,225,000 |
| **Summary By Object of Expenditure:** | | |
| Manpower | — | — |
| Supplies and Services | — | — |
| Grants | 1,385,000 | 4,225,000 |
| Purchase of Fixed Assets | — | — |
| Total Project | 1,385,000 | 4,225,000 |

**Total Actual Expenditure to 31-Mar-84:** Nil

## HOSPITALS AND MEDICAL CARE

**1. Applied Cancer Research**

**AMOUNT TO BE VOTED:** $4,662,000

**Objective:** To provide funds for applied cancer research, which may entail the establishment of new or expanded treatment programmes and the purchase of advanced technological equipment.

**Implementation:** The Provincial Cancer Hospitals Board reviews applied cancer research proposals and recommends projects for funding. The Department provides grants to the Board for the financing of approved projects.

| | 1985-86 Estimates $ | Comparable 1984-85 Estimates $ |
|---|---|---|
| **Sub-Projects:** | | |
| No sub-project breakdown | | |
| Total Project | 4,662,000 | 5,194,000 |
| **Summary By Object of Expenditure:** | | |
| Manpower | — | — |
| Supplies and Services | — | — |
| Grants | 4,662,000 | 5,194,000 |
| Purchase of Fixed Assets | — | — |
| Total Project | 4,662,000 | 5,194,000 |

**Total Actual Expenditure to 31-Mar-84:** $21,033,000

## HOSPITALS AND MEDICAL CARE

**2. Walter C. Mackenzie Health Sciences Centre**

**AMOUNT TO BE VOTED:** $44,000,000

**Objective:** To fund the construction of a health sciences centre as part of the University of Alberta Hospital in Edmonton that will integrate health care, teaching and research.

**Implementation:** The Department provides grants to the University of Alberta Hospitals Board for the purposes of constructing, equipping and furnishing the health sciences centre.

| | 1985-86 Estimates $ | Comparable 1984-85 Estimates $ |
|---|---|---|
| **Sub-Projects:** | | |
| No sub-project breakdown | | |
| Total Project | 44,000,000 | 74,000,000 |
| **Summary By Object of Expenditure:** | | |
| Manpower | — | — |
| Supplies and Services | — | — |
| Grants | 44,000,000 | 74,000,000 |
| Purchase of Fixed Assets | — | — |
| Total Project | 44,000,000 | 74,000,000 |

**Total Actual Expenditure to 31-Mar-84:** $268,009,000

## PUBLIC WORKS, SUPPLY AND SERVICES

**1. Capital City Recreation Park**

**AMOUNT TO BE VOTED:** $1,000,000

**Objective:** To acquire lands along the eastern part of the North Saskatchewan River Valley in Edmonton and the County of Strathcona as part of a park and recreation area.

**Implementation:** Public Works, Supply and Services is involved only with purchases of land for the park.

| | 1985-86 Estimates $ | Comparable 1984-85 Estimates $ |
|---|---|---|
| **Sub-Projects:** | | |
| 1. Capital City Recreation Park — Construction | — | — |
| 2. Capital City Recreation Park — Land | 1,000,000 | 1,000,000 |
| Total Project | 1,000,000 | 1,000,000 |
| **Summary By Object of Expenditure:** | | |
| Manpower | — | — |
| Supplies and Services | — | — |
| Grants | — | — |
| Purchase of Fixed Assets | 1,000,000 | 1,000,000 |
| Total Project | 1,000,000 | 1,000,000 |

**Total Actual Expenditure to 31-Mar-84:** $42,243,000

## PUBLIC WORKS, SUPPLY AND SERVICES

**2. Fish Creek Provincial Park (Land)**

**AMOUNT TO BE VOTED:** $1,780,000

**Objective:** To purchase land associated with the development of Fish Creek Provincial Park and recreation area in Calgary.

**Implementation:** Public Works, Supply and Services is responsible for land acquisition. Park development and provision of facilities are the responsibility of Recreation and Parks.

| | 1985-86 Estimates $ | Comparable 1984-85 Estimates $ |
|---|---|---|
| **Sub-Projects:** | | |
| No sub-project breakdown | | |
| Total Project | 1,780,000 | 1,500,000 |
| **Summary By Object of Expenditure:** | | |
| Manpower | — | — |
| Supplies and Services | 1,780,000 | 500,000 |
| Grants | — | — |
| Purchase of Fixed Assets | — | 1,000,000 |
| Total Project | 1,780,000 | 1,500,000 |

**Total Actual Expenditure to 31-Mar-84:** $27,617,000

## RECREATION AND PARKS

**1. Kananaskis Country Recreation Development**

**AMOUNT TO BE VOTED: $18,148,000**

**Objective:** To develop recreational and transportation facilities within the Kananaskis Country region of the eastern slopes of the Rocky Mountains, while also preserving or enhancing critical wildlife areas.

**Implementation:** The project funds are allocated to Recreation and Parks and distributed to Tourism and Small Business, Energy and Natural Resources, Transportation, and Public Works, Supply and Services for planning and developing their respective programmes.

Implementation of the project is accomplished principally through construction contracts with the private sector.

| | 1985-86 Estimates $ | Comparable 1984-85 Estimates $ |
|---|---|---|
| **Sub-Projects:** | | |
| 1. Project Coordination<br>With the design phase nearing completion, this sub-project principally entails overall project coordination of construction and development. | 373,300 | 300,000 |
| 2. Major Buildings, Facilities and Utilities<br>This sub-project is largely delivered by Public Works, Supply and Services and provides funds for major construction projects and regional utilities. Directly related administrative costs are also provided for. | 6,990,620 | 7,623,500 |
| 3. Campgrounds, Day Use Facilities and Trails<br>This sub-project is delivered by Recreation and Parks and provides for the development of day use areas, a golf course, interpretive and other trails, campgrounds and emergency facilities. Campground development in this sub-project is largely confined to provincial parks. Directly related administrative costs are also provided for. | 1,642,100 | 1,846,200 |
| 4. Foothills Trails and Primitive Campgrounds<br>This sub-project is delivered by Energy and Natural Resources and provides for the development of campgrounds and trail systems, as well as supporting facilities. Directly related administrative costs are also provided for. | 233,000 | 759,800 |
| 5. Regional Roads Programme<br>This sub-project is delivered by Transportation. Major work in 1985-86 will include the further development of the Elbow Falls Trail and the Highwood Trail and several smaller projects to complete paving, landscaping, etc. Directly related administrative costs are also provided for. | 8,677,840 | 11,934,900 |
| 6. Fish and Wildlife Enhancement<br>This sub-project is delivered by Energy and Natural Resources. It provides for projects related to the enhancement of the habitats of fish, big game, birds and river otter. Directly related administrative costs are also provided for. | 231,140 | 571,900 |
| Total Project | 18,148,000 | 23,036,300 |

| **Summary By Object of Expenditure:** | | |
|---|---|---|
| Manpower | 1,752,205 | 2,433,000 |
| Supplies and Services | 16,226,295 | 20,273,500 |
| Grants | — | — |
| Purchase of Fixed Assets | 169,000 | 329,800 |
| Other | 500 | — |
| Total Project | 18,148,000 | 23,036,300 |

**Total Actual Expenditure to 31-Mar-84:** $183,141,000

## RECREATION AND PARKS

### 2. Urban Parks

**AMOUNT TO BE VOTED:** $22,155,000

**Objective:** To provide capital funds to assist five communities (Medicine Hat, Lethbridge, Red Deer, Lloydminster and Grande Prairie) in the development of urban parks to enhance outdoor recreation opportunities for their residents and other Albertans.

**Implementation:** Recreation and Parks is responsible for the administration and coordination of the programme. The municipalities involved receive funding for their urban parks through a system of conditional grants made in accordance with approved park plans.

| | 1985-86 Estimates $ | Comparable 1984-85 Estimates $ |
|---|---|---|
| **Sub-Projects:** | | |
| No sub-project breakdown | — | — |
| Total Project | 22,155,000 | 22,175,000 |
| **Summary By Object of Expenditure:** | | |
| Manpower | 125,000 | 125,000 |
| Supplies and Services | 30,000 | 50,000 |
| Grants | 22,000,000 | 22,000,000 |
| Purchase of Fixed Assets | — | — |
| Total Project | 22,155,000 | 22,175,000 |

**Total Actual Expenditure to 31-Mar-84:** $40,352,000

## FINANCIAL SUMMARY

| | |
|---|---|
| 1985-86 Estimates to be Voted | $ 252,354,100 |
| 1984-85 Estimates | $ 291,950,300 |
| Total Actual Investment to 31-Mar-84 | $2,134,638,000 |